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| <u>L14</u> L13 or L12 | 12 | <u>L14</u> |
| <u>L13</u> L8 and (virtual adj1 lan\$) | 7 | <u>L13</u> |
| <u>L12</u> L8 and (virtual adj1 server\$) | 5 | <u>L12</u> |
| <u>L11</u> L8 and virtual | 247 | <u>L11</u> |
| <u>L10</u> L8 and (virtual adj1 (server\$ or Lan\$)) | 0 | <u>L10</u> |
| <u>L9</u> (L2 or L3 or L4 or L5 or L6) and tunnel\$ | 0 | <u>L9</u> |
| <u>L8</u> L7 and tunnel\$ | 388 | <u>L8</u> |
| <u>L7</u> 709/\$.ccls. | 17513 | <u>L7</u> |
| <u>L6</u> 6038608.pn. | 1 | <u>L6</u> |
| <u>L5</u> 6016318.pn. | 1 | <u>L5</u> |
| <u>L4</u> 6047325.pn. | 1 | <u>L4</u> |
| <u>L3</u> 6247057.pn. | 1 | <u>L3</u> |
| <u>L2</u> 6286047.pn. | 1 | <u>L2</u> |

*Tunnel
+
virtual
Server w/
virtual
LAN*

L1 5351237.pn.

1 L1

END OF SEARCH HISTORY

h e b b cg b e e ch

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L6: Entry 1 of 6

File: USPT

Sep 2, 2003

DOCUMENT-IDENTIFIER: US 6615258 B1

TITLE: Integrated customer interface for web based data management

Detailed Description Text (136) :

After the data has been processed in the Harvesting component 440 it is input to an operational data store component ("ODS") 450 that stores the billing detail records and dimension tables as a data model. In the preferred embodiment, the data model of ODS is a dimensional or "star schema" model, including a central fact table multiply joined to a number of attendant tables known as dimensions. The relationships between the fact table and the dimensional tables are either enforced through keys, which may be generated, or as lookup codes. The ODS layer 450 is thus comprised of all data harvested from all applications in the data harvesting layer 430, and feeds report-supporting DataMarts 470 in a manner which supports customized data access. The DataMarts may be engineered to pre-process data, create aggregates, and otherwise perform transformations on the data prior to DataMart loading 465 in order to implement a defined data model, e.g., star schema key structures, fact and dimension tables depicted as block 460. In the preferred embodiment, as shown in FIG. 12, the Operational Data Store 450 includes multiple datamarts 470 each for storing and retrieving daily and monthly data on a periodic basis. It primarily is responsible for hosting highly current data, e.g., at least 72 hours old. In accordance with customer-reporting needs, data marts 470 are partitioned in accordance with partitioning schemes which, for example, may be based on customer-ID. Particularly, each DataMart is engineered for servicing specific customers or specific product sets, as well as engineered for the specific requirements of the customer/product such as high insert activity, heavy reporting requirements, etc. As data is volatile and changing and may not produce consistent results for the same query launched at multiple times, ODS is engineered for high performance through appropriate storage technologies and parallel processing. Although not shown, a Common Data Warehouse is provided in this ODS layer that is responsible for performing storage, retrieval and archiving of data, typically of relaxed currency (e.g., more than 24 hours) and is targeted at trend analysis and detection. In the preferred embodiment, the datamarts utilize an Informix.TM. database in a star topology.

Current US Original Classification (1) :709/223Current US Cross Reference Classification (1) :709/229

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L10: Entry 1 of 1

File: USPT

Mar 14, 2000

DOCUMENT-IDENTIFIER: US 6038608 A

** See image for Certificate of Correction **

TITLE: Virtual LAN system

Abstract Text (1):

By providing a plurality of virtual LAN's such that ports communicating according to one protocol are grouped and communication is performed between the ports in the group, a communication is possible according to a plurality of protocols and it is possible to enter into other virtual LAN's than a virtual LAN to which a connection is made.

Brief Summary Text (7):

Further, in order to enable the host terminal to belong to a plurality of virtual LAN's, virtual LAN's to which the host terminal can belong are preliminarily registered in a virtual server for controlling the construction of the virtual LAN's and a connection is made to the virtual LAN server by assigning the virtual LAN to be used in a communication when the host terminal starts the communication.

Brief Summary Text (8):

Since such conventional virtual LAN system determines the upper protocol to be used in a communication every LAN in order to construct a plurality of virtual LAN's every protocol indicative of the communication procedures, a communication within the LAN must be performed by using only this protocol. Therefore, there is a problem that the host terminal can not perform communication by using a plurality of upper protocols within the connected LAN. Further, since, in order to enable the host terminal to belong to a plurality of virtual LAN's, virtual LAN's to which the host terminal can belong are preliminarily registered in a virtual server for controlling the construction of the virtual LAN's and a connection is made to the virtual LAN server by assigning the virtual LAN to be used in a communication when the host terminal starts the communication, there is another problem that can not use other virtual LAN's than the virtual LAN to which the connection is made.

Brief Summary Text (10):

An object of the present invention is to provide a virtual LAN system in which a host terminal can perform communication by using a plurality of upper protocols within a LAN to which the host terminal is connected and can use other virtual LAN's than a virtual LAN to which a connection is made.

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L5: Entry 2 of 2

File: USPT

Mar 14, 2000

DOCUMENT-IDENTIFIER: US 6038608 A

**** See image for Certificate of Correction ****

TITLE: Virtual LAN system

Brief Summary Text (7):

Further, in order to enable the host terminal to belong to a plurality of virtual LAN's, virtual LAN's to which the host terminal can belong are preliminarily registered in a virtual server for controlling the construction of the virtual LAN's and a connection is made to the virtual LAN server by assigning the virtual LAN to be used in a communication when the host terminal starts the communication.

Brief Summary Text (8):

Since such conventional virtual LAN system determines the upper protocol to be used in a communication every LAN in order to construct a plurality of virtual LAN's every protocol indicative of the communication procedures, a communication within the LAN must be performed by using only this protocol. Therefore, there is a problem that the host terminal can not perform communication by using a plurality of upper protocols within the connected LAN. Further, since, in order to enable the host terminal to belong to a plurality of virtual LAN's, virtual LAN's to which the host terminal can belong are preliminarily registered in a virtual server for controlling the construction of the virtual LAN's and a connection is made to the virtual LAN server by assigning the virtual LAN to be used in a communication when the host terminal starts the communication, there is another problem that can not use other virtual LAN's than the virtual LAN to which the connection is made.

Brief Summary Text (10):

An object of the present invention is to provide a virtual LAN system in which a host terminal can perform communication by using a plurality of upper protocols within a LAN to which the host terminal is connected and can use other virtual LAN's than a virtual LAN to which a connection is made.